

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 06255019
PUBLICATION DATE : 13-09-94

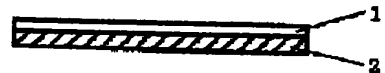
APPLICATION DATE : 08-03-93
APPLICATION NUMBER : 05046447

APPLICANT : HITACHI CHEM CO LTD;

INVENTOR : SUZUKI MASAHIRO;

INT.CL. : B32B 15/04 C23C 4/10

TITLE : CERAMIC COMPOSITE LAMINATED
SHEET AND PRODUCTION OF
MULTILAYER WIRING BOARD USED
THEREWITH



ABSTRACT : PURPOSE: To provide a ceramic composite laminated sheet wherein heat resistance and low expansibility are excellent and a multilayer wiring board used therewith by providing a flame-sprayed layer of ceramic on a metallic foil and impregnating the flame-sprayed layer with the organic insulating material and hardening it.

CONSTITUTION: A ceramic flame-sprayed layer having a thickness of 50 μ m is provided by flame-spraying cordierite by plasma on a copper foil (a thickness of 18 μ m) 1. Then as the organic insulating material, p-phenylenediamine, pyromellitic dianhydride and 3,3',4,4'-biphenyltetracarboxylic dianhydride are reacted at molar ratio of 1:0.1:0.4. The ceramic flame-sprayed layer is impregnated with N-methyl-2-pyrrolidone varnish of the obtained polyamic acid. The ceramic flame-sprayed layer is heated at 120°C for 30 minutes in nitrogen gas and the temperature thereof is raised from 120 to 400°C in two hours and furthermore the same is heated at 400°C for ten minutes.

COPYRIGHT: (C)1994,JPO&Japio